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US DEPARTMENT OF COMMERCE

Docket No.

50623.317

Application No.

10/718,976

 INFORMATION DISCLOSURE CITATION
 in an Application

(Use several sheets if necessary)

Applicant

Syed F.A. Hossainy et al.

Filing Date

November 20, 2003

Group Art Unit

1615

U.S. PATENT DOCUMENTS

Examiner Initial	Ref. No.	Document Number	Date of Patent	Name	Class	Subclass	Filing Date if Appropriate
QH	A1	6,753,071	6/22/04	Pacetti			
QH	A2	6,783,793	8/31/04	Hossainy et al.			
	A3						
	A4						
	A5						
	A6						
	A7						
	A8						

FOREIGN PATENT DOCUMENTS

Examiner Initial	Ref. No.	Document Number	Date of Publication	Country	Class	Subclass	Translation	
							Yes	No
QH	B1	EP 1 362 603	11/19/03	EPO				
	B2							
	B3							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

QH	C1	International Search Report and Written Opinion for PCT/US2004/038843 filed 11/17/04, mailed 4/21/05, 11 pgs.
QH	C2	Schmidmaier et al., <i>A New Biodegradable Polylactic Acid Coronary Stent-Coating, Releasing PEG-Hirudin and a Prostacycline Analog, Reduces Both Platelet Activation and Plasmatic Coagulation</i> , J. of Am. College of Cardiology, vol. 29, no. 2 Suppl., 3/16/1997, pg. 354A.
QH	C3	Schmidmaier et al., <i>Time Release Characteristics of a Biodegradable Stent Coating with Polylactic Acid Releasing PEG-Hirudin and PG12-Analog</i> , J. of Am. College of Cardiology, vol. 29, no. 1 Suppl., February 1997, pg. 94A.
	C4	

EXAMINER	DATE CONSIDERED
QH	3/9/2007

 EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered.
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Examiner Initial	Ref. No.	Document Number	Date of Patent	Name	Class	Subclass	Filing Date If Appropriate
QA	A1	4,329,383	5/11/82	Joh	428	36	7/21/80
	A2	4,733,665	3/29/88	Palmaz	128	343	11/7/85
	A3	4,800,882	1/31/89	Gianturco	128	343	3/13/87
	A4	4,882,168	11/21/89	Casey et al.	424	468	9/5/86
	A5	4,886,062	12/12/89	Wiktor	128	343	10/19/87
	A6	4,941,870	7/17/90	Okada et al.	600	36	12/30/88
	A7	4,977,901	12/18/90	Ofstead	128	772	4/6/90
	A8	5,112,457	5/12/92	Marchant	204	165	7/23/90
	A9	5,165,919	11/24/92	Sasaki et al.	424	488	9/26/90
	A10	5,272,012	12/21/93	Opolski	428	423.1	1/29/92
	A11	5,292,516	3/8/94	Viegas et al.	424	423	11/8/91
	A12	5,298,260	3/29/94	Viegas et al.	424	486	6/9/92
	A13	5,300,295	4/5/94	Viegas et al.	424	427	9/13/91
	A14	5,306,501	4/26/94	Viegas et al.	424	423	11/8/91
	A15	5,328,471	7/12/94	Slepian	604	101	8/4/93
	A16	5,330,768	7/19/94	Park et al.	424	501	7/5/91
	A17	5,380,299	1/10/95	Fearnott et al.	604	265	8/30/93
	A18	5,417,981	5/23/95	Endo et al.	424	486	4/28/93
	A19	5,447,724	9/5/95	Helmus et al.	424	426	11/15/93
	A20	5,455,040	10/3/95	Marchant	424	426	11/19/92
	A21	5,462,990	10/31/95	Hubbell et al.	525	54.1	10/5/93
	A22	5,464,650	11/7/95	Berg et al.	427	2.30	4/26/93
	A23	5,569,463	10/29/96	Helmus et al.	424	426	6/7/95
	A24	5,578,073	11/26/96	Haimovich et al.	623	1	9/16/94
QA	A25	5,605,696	2/25/97	Eury et al.	424	423	3/30/95
	A26	5,609,629	3/11/97	Fearnott et al.	623	1	6/7/95

91	A27	5,624,411	4/29/97	Tuch	604	265	6/7/95
	A28	5,628,730	5/13/97	Shapland et al.	604	21	7/18/94
	A29	5,649,977	7/22/97	Campbell	623	1	9/22/94
	A30	5,658,995	8/19/97	Kohn et al.	525	432	11/27/95
	A31	5,667,767	9/16/97	Greff et al.	424	9.411	7/27/95
	A32	5,670,558	9/23/97	Onishi et al.	523	112	7/6/95
	A33	5,679,400	10/21/97	Tuch	427	2.14	6/7/95
	A34	5,700,286	12/23/97	Tartaglia et al.	623	1	8/22/96
	A35	5,702,754	12/30/97	Zhong	427	2.12	2/22/95
	A36	5,716,981	2/10/98	Hunter et al.	514	449	6/7/95
	A37	5,735,897	4/7/98	Buirge	623	12	1/2/97
	A38	5,746,998	5/5/98	Torchilin et al.	424	9.4	8/8/96
	A39	5,776,184	7/7/98	Tuch	623	1	10/9/96
	A40	5,788,979	8/4/98	Alt et al.	424	426	2/10/97
	A41	5,800,392	9/1/98	Racchini	604	96	5/8/96
	A42	5,820,917	10/13/98	Tuch	427	2.1	6/7/95
	A43	5,824,048	10/20/98	Tuch	623	1	10/9/96
	A44	5,824,049	10/20/98	Ragheb et al.	623	1	10/31/96
	A45	5,830,178	11/3/98	Jones et al.	604	49	10/11/96
	A46	5,837,008	11/17/98	Berg et al.	623	1	4/27/95
	A47	5,837,313	11/17/98	Ding et al.	427	2.21	6/13/96
	A48	5,851,508	12/22/98	Greff et al.	424	9.411	2/14/97
	A49	5,858,746	1/12/99	Hubbell et al.	435	177	1/25/95
	A50	5,865,814	2/2/99	Tuch	604	265	8/6/97
	A51	5,869,127	2/9/99	Zhong	427	2.12	6/18/97
	A52	5,873,904	2/23/99	Ragheb et al.	623	1	2/24/97
	A53	5,876,433	3/2/99	Lunn	623	1	5/29/96
	A54	5,877,224	3/2/99	Brocchini et al.	514	772.2	7/28/95
	A55	5,925,720	7/20/99	Kataoka et al.	525	523	12/18/97
	A56	5,955,509	9/21/99	Webber et al.	514	772.7	4/23/97
91	A57	5,971,954	10/26/99	Conway et al.	604	96	1/29/97
91	A58	5,980,928	11/9/99	Terry	424	427	7/29/97

Q1	A59	5,980,972	11/9/99	Ding	427	2.24	9/22/97
	A60	5,997,517	12/7/99	Whitbourne	604	265	1/27/97
	A61	6,010,530	1/4/00	Goicoechea	623	1	2/18/98
	A62	6,015,541	1/18/00	Greff et al.	424	1.25	11/3/97
	A63	6,033,582	3/7/00	Lee et al.	216	37	1/16/98
	A64	6,042,875	3/28/00	Ding et al.	427	2.24	3/2/99
	A65	6,051,648	4/18/00	Rhee et al.	525	54.1	1/13/99
	A66	6,051,576	4/18/00	Ashton et al.	514	255	1/29/97
	A67	6,056,993	5/2/00	Leidner et al.	427	2.25	4/17/98
	A68	6,060,451	5/9/00	DiMaio et al.	514	13	3/20/95
	A69	6,060,518	5/9/00	Kabanov et al.	514	781	8/16/96
	A70	6,080,488	6/27/00	Hostettler et al.	428	423.3	3/24/98
	A71	6,096,070	8/1/00	Ragheb et al.	623	1	5/16/96
	A72	6,099,562	8/8/00	Ding et al.	623	1.46	12/22/97
	A73	6,110,188	8/29/00	Narciso, Jr.	606	153	3/9/98
	A74	6,110,483	8/29/00	Whitbourne et al.	424	423	6/23/97
	A75	6,113,629	9/5/00	Ken	623	1.1	5/1/98
	A76	6,120,536	9/19/00	Ding et al.	623	1.43	6/13/96
	A77	6,120,904	9/19/00	Hostettler et al.	428	423.3	5/24/99
	A78	6,121,027	9/19/00	Clapper et al.	435	180	8/15/97
	A79	6,129,761	10/10/00	Hubbell	623	11	6/7/95
	A80	6,153,252	11/28/00	Hossainy et al.	427	2.3	4/19/99
	A81	6,165,212	12/26/00	Dereume et al.	623	1.13	6/28/99
	A82	6,203,551	3/20/01	Wu	606	108	10/4/99
	A83	6,231,600	5/15/01	Zhong	623	1.42	5/26/99
	A84	6,240,616	6/5/01	Yan	29	527.2	4/15/97
	A85	6,245,753	6/12/01	Byun et al.	514	56	4/27/99
	A86	6,251,136	6/26/01	Guruwaiya et al.	623	1.46	12/8/99
	A87	6,254,632	7/3/01	Wu et al.	623	1.15	9/28/00
Q1	A88	6,258,121	7/10/01	Yang et al.	623	1.46	7/2/99
	A89	6,283,947	9/4/01	Mirzaee	604	264	7/13/99

Q1	A90	6,283,949	9/4/01	Roorda	604	288.02	12/27/99
	A91	6,284,305	9/4/01	Ding et al.	427	2.28	5/18/00
	A92	6,287,628	9/11/01	Hossainy et al.	427	2.3	9/3/99
	A93	6,299,604	10/9/01	Ragheb et al.	604	265	8/20/99
	A94	6,306,176	10/23/01	Whitbourne	623	23.59	9/21/99
	A95	6,331,313	12/18/01	Wong et al.	424	427	10/22/99
	A96	6,335,029	1/1/02	Kamath et al.	424	423	12/3/98
	A97	6,346,110	2/12/02	Wu	606	108	1/3/01
	A98	6,358,556	3/19/02	Ding et al.	427	2.24	1/23/98
	A99	6,379,381	4/30/02	Hossainy et al.	623	1.42	9/3/99
	A100	6,395,326	5/28/02	Castro et al.	427	2.24	5/31/00
	A101	6,419,692	7/16/02	Yang et al.	623	1.15	2/3/99
	A102	6,451,373	9/17/02	Hossainy et al.	427	2.25	8/4/00
	A103	6,494,862	12/17/02	Ray et al.	604	96.01	12/30/99
	A104	6,503,556	1/7/03	Harish et al.	427	2.24	12/28/00
	A105	6,503,954	1/7/03	Bhat et al.	514	772.2	7/21/00
	A106	6,506,437	1/14/03	Harish et al.	427	2.25	10/17/00
	A107	6,527,801	3/4/03	Dutta	623	1.46	4/13/00
	A108	6,527,863	3/4/03	Pacetti et al.	118	500	6/29/01
	A109	6,540,776	4/1/03	Sanders Millare et al.	623	1.15	12/28/00
	A110	6,544,223	4/8/03	Kokish	604	103.01	1/5/01
	A111	6,544,543	4/8/03	Mandrusov et al.	424	422	12/27/00
	A112	6,544,582	4/8/03	Yoe	427	2.24	1/5/01
	A113	6,555,157	4/29/03	Hossainy	427	2.24	7/25/00
	A114	6,558,733	5/6/03	Hossainy et al.	427	2.24	10/26/00
	A115	6,565,659	5/20/03	Pacetti et al.	118	500	6/28/01
	A116	6,572,644	6/3/03	Moein	623	1.11	6/27/01
Q1	A117	6,585,765	7/1/03	Hossainy et al.	623	1.45	6/29/00
Q1	A118	6,585,926	7/1/03	Mirzaee	264	400	8/31/00

	A119	6,605,154	8/12/03	Villareal	118	500	5/31/01	
U.S. PATENT APPLICATION PUBLICATION DOCUMENTS								
Examiner Initial	Ref. No.	Document Number	Date of Publication	Name	Class	Subclass	Filing Date If Appropriate	
QH	A120	2001/0018469	8/30/01	Chen et al.	523	121	12/28/00	
	A121	2001/0037145	11/1/01	Guruwaiya et al.	623	1.15	6/21/01	
	A122	2002/0077693	6/20/02	Barclay et al.	623	1.13	12/19/00	
	A123	2002/0091433	7/11/02	Ding et al.	623	1.2	12/17/01	
	A124	2002/0155212	10/24/02	Hossainy	427	2.25	4/24/01	
	A125	2003/0065377	4/3/03	Davila et al.	623	1.13	4/30/02	
	A126	2003/0099712	5/29/03	Jayaraman	424	486	11/26/01	
FOREIGN PATENT DOCUMENTS								
Examiner Initial	Ref. No.	Document Number	Date of Publication	Country	Class	Subclass	Translation	
							Yes	No
	B1	EP 0 301 856	2/1/89	European				
	B2	EP 0 514 406	11/25/92	European				
	B3	EP 0 604 022	6/29/94	European				
	B4	EP 0 623 354	11/9/94	European				
	B5	EP 0 665 023	8/2/95	European				
	B6	EP 0 701 802	3/20/96	European				
	B7	EP 0 716 836	6/19/96	European				
	B8	EP 0 809 999	12/3/97	European				
	B9	EP 0 832 655	4/1/98	European				
	B10	EP 0 850 651	7/1/98	European				
	B11	EP 0 879 595	11/25/98	European				
	B12	EP 0 910 584	4/28/99	European				
	B13	EP 0 923 953	6/23/99	European				
	B14	EP 0 953 320	11/3/99	European				
	B15	EP 0 970 711	1/12/00	European				
	B16	EP 0 982 041	3/1/00	European				
	B17	EP 1 273 314	1/8/03	European				
	B18	2001-190687	7/17/01	Japan (Abstract)			X	
QH	B19	WO 91/12846	9/5/91	PCT				
QH	B20	WO 95/10989	4/27/95	PCT				

91	B21	WO 96/40174	12/19/96	PCT				
	B22	WO 97/10011	3/20/97	PCT				
	B23	WO 97/45105	12/4/97	PCT				
	B24	WO 97/46590	12/11/97	PCT				
	B25	WO 98/17331	4/30/98	PCT				
	B26	WO 98/36784	8/27/98	PCT				
	B27	WO 99/01118	1/14/99	PCT				
	B28	WO 99/38546	8/5/99	PCT				
	B29	WO 99/63981	12/16/99	PCT				
	B30	WO 00/02599	1/20/00	PCT				
	B31	WO 00/12147	3/9/00	PCT				
	B32	WO 00/18446	4/6/00	PCT				
	B33	WO 00/64506	11/2/00	PCT				
	B34	WO 01/01890	1/11/01	PCT				
	B35	WO 01/15751	3/8/01	PCT				
	B36	WO 01/17577	3/15/01	PCT				
	B37	WO 01/45763	6/28/01	PCT				
	B38	WO 01/49338	7/12/01	PCT				
	B39	WO 01/74414	10/11/01	PCT				
	B40	WO 02/03890	1/17/02	PCT				
	B41	WO 02/026162	4/4/02	PCT				
	B42	WO 02/34311	5/2/02	PCT				
	B43	WO 02/056790	7/25/02	PCT				
	B44	WO 03/000308	1/3/03	PCT				
	B45	WO 03/022323	3/20/03	PCT				
	B46	WO 03/028780	4/10/03	PCT				
	B47	WO 03/037223	5/8/03	PCT				
	B48	WO 03/039612	5/15/03	PCT				
	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
91	C1	Anonymous, <i>Cardiologists Draw - Up The Dream Stent</i> , Clinica 710:15 (June 17, 1996), http://www.dialogweb.com/cqi/document?req=1061848202959 , printed 8/25/03 (2 pages).						
91	C2	Anonymous, <i>Heparin-coated stents cut complications by 30%</i> , Clinica 732:17 (Nov. 18, 1996), http://www.dialogweb.com/cqi/document?req=1061847871753 , printed 8/25/03 (2 pages).						

Q1	C3	Anonymous, <i>Rolling Therapeutic Agent Loading Device for Therapeutic Agent Delivery or Coated Stent</i> (Abstract 434009), Res. Disclos. pp. 974-975 (June 2000).
	C4	Anonymous, <i>Stenting continues to dominate cardiology</i> , Clinica 720:22 (Sept. 2, 1996), http://www.dialogweb.com/cgi/document?req=1061848017752 , printed 8/25/03 (2 pages).
	C5	Aoyagi et al., <i>Preparation of cross-linked aliphatic polyester and application to thermo-responsive material</i> , Journal of Controlled Release 32:87-96 (1994).
	C6	Barath et al., <i>Low Dose of Antitumor Agents Prevents Smooth Muscle Cell Proliferation After Endothelial Injury</i> , JACC 13(2): 252A (Abstract) (Feb. 1989).
	C7	Barbucci et al., <i>Coating of commercially available materials with a new heparinizable material</i> , J. Biomed. Mater. Res. 25:1259-1274 (Oct. 1991).
	C8	Chung et al., <i>Inner core segment design for drug delivery control of thermo-responsive polymeric micelles</i> , Journal of Controlled Release 65:93-103 (2000).
	C9	Dev et al., <i>Kinetics of Drug Delivery to the Arterial Wall Via Polyurethane-Coated Removable Nitinol Stent: Comparative Study of Two Drugs</i> , Catheterization and Cardiovascular Diagnosis 34:272-278 (1995).
	C10	Dichek et al., <i>Seeding of Intravascular Stents with Genetically Engineered Endothelial Cells</i> , Circ. 80(5):1347-1353 (Nov. 1989).
	C11	Eigler et al., <i>Local Arterial Wall Drug Delivery from a Polymer Coated Removable Metallic Stent: Kinetics, Distribution, and Bioactivity of Forskolin</i> , JACC, 4A (701-1), Abstract (Feb. 1994).
	C12	Helmus, <i>Overview of Biomedical Materials</i> , MRS Bulletin, pp. 33-38 (Sept. 1991).
	C13	Herdeg et al., <i>Antiproliferative Stent Coatings: Taxol and Related Compounds</i> , Semin. Intervent. Cardiol. 3:197-199 (1998).
	C14	Inoue et al., <i>An AB block copolymer of oligo(methyl methacrylate) and poly(acrylic acid) for micellar delivery of hydrophobic drugs</i> , Journal of Controlled Release 51:221-229 (1998).
	C15	Kataoka et al., <i>Block copolymer micelles as vehicles for drug delivery</i> , Journal of Controlled Release 24:119-132 (1993).
	C16	Levy et al., <i>Strategies For Treating Arterial Restenosis Using Polymeric Controlled Release Implants</i> , Biotechnol. Bioact. Polym. [Proc. Am. Chem. Soc. Symp.], pp. 259-268 (1994).
	C17	Liu et al., <i>Drug release characteristics of unimolecular polymeric micelles</i> , Journal of Controlled Release 68:167-174 (2000).
	C18	Marconi et al., <i>Covalent bonding of heparin to a vinyl copolymer for biomedical applications</i> , Biomaterials 18(12):885-890 (1997).
	C19	Matsumaru et al., <i>Embolic Materials For Endovascular Treatment of Cerebral Lesions</i> , J. Biomater. Sci. Polymer Edn 8(7):555-569 (1997).
	C20	Miyazaki et al., <i>Antitumor Effect of Implanted Ethylene-Vinyl Alcohol Copolymer Matrices Containing Anticancer Agents on Ehrlich Ascites Carcinoma and P388 Leukemia in Mice</i> , Chem. Pharm. Bull. 33(6) 2490-2498 (1985).
	C21	Miyazawa et al., <i>Effects of Pemirolast and Tranilast on Intimal Thickening After Arterial Injury in the Rat</i> , J. Cardiovasc. Pharmacol., pp. 157-162 (1997).
	C22	Nordrehaug et al., <i>A novel biocompatible coating applied to coronary stents</i> , European Heart Journal 14, p. 321 (P1694), Abstr. Suppl. (1993).
	C23	Ohsawa et al., <i>Preventive Effects of an Antiallergic Drug, Pemirolast Potassium, on Restenosis After Percutaneous Transluminal Coronary Angioplasty</i> , American Heart Journal 136(6):1081-1087 (Dec. 1998).
Q1	C24	Ozaki et al., <i>New Stent Technologies</i> , Progress in Cardiovascular Diseases, Vol. XXXIX(2):129-140 (Sept./Oct. 1996).
Q1	C25	Pechar et al., <i>Poly(ethylene glycol) Multiblock Copolymer as a Carrier of Anti-Cancer Drug Doxorubicin</i> , Bioconjugate Chemistry 11(2):131-139 (Mar./Apr. 2000).

Q1	C26	Peng et al., <i>Role of polymers in improving the results of stenting in coronary arteries</i> , Biomaterials 17:685-694 (1996).
	C27	Shigeno, <i>Prevention of Cerebrovascular Spasm By Bosentan, Novel Endothelin Receptor</i> , Chemical Abstract 125:212307 (1996).
	C28	van Beusekom et al., <i>Coronary stent coatings</i> , Coronary Artery Disease 5(7):590-596 (July 1994).
	C29	Wilensky et al., <i>Methods and Devices for Local Drug Delivery in Coronary and Peripheral Arteries</i> , Trends Cardiovasc. Med. 3(5):163-170 (1993).
Q1	C30	Yokoyama et al., <i>Characterization of physical entrapment and chemical conjugation of adriamycin in polymeric micelles and their design for in vivo delivery to a solid tumor</i> , Journal of Controlled Release 50:79-92 (1998).
EXAMINER	DATE CONSIDERED	
Q1	3/9/2007	

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